

WHAT IS CLAIMED IS:

1. A polypeptide, which is about 4 to 20 amino acids in length, and which comprises SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, or SEQ ID NO:35.
2. The polypeptide according to claim 1, which is about 4 to 15 amino acids long.
3. The polypeptide according to claim 2, which is about 4 to 10 amino acids long.
4. The polypeptide according to claim 3, which is about 4 to 7 amino acids long.
5. The polypeptide according to claim 4, which is about 6 amino acids long.
6. An antibody that specifically binds to the polypeptide according to claim 1.
7. The antibody according to claim 6, which is a monoclonal antibody.
8. An isolated nucleic acid encoding the polypeptide according to claim 1.
9. An expression vector comprising the nucleic acid according to claim 8.
10. A host cell comprising the expression vector according to claim 9.
11. A method of making the polypeptide according to claim 1, comprising
 - (a) synthesizing a polypeptide, which is 4 to 20 amino acids in length;
 - (b) contacting the polypeptide with a target cell; and

(c) determining whether the cells release arachidonic acid, wherein induction of arachidonic acid indicates the presence of the polypeptide.

12. The method according to claim 11, wherein the target cell is a leukocyte or a phagocyte.

13. A method of inducing expression of arachidonic acid in a target cell, comprising:
(a) generating a recombinant viral or plasmid vector comprising a DNA sequence encoding the polypeptide according to claim 1 operably linked to a promoter; and
(b) administering the viral or plasmid vector to a patient in need thereof, such that expression of said DNA sequence within the target cell results in expression of the arachidonic acid.

14. The method according to claim 13, wherein the target cell is a leukocyte or phagocyte.

15. A method of inducing expression of arachidonic acid in a target cell comprising contacting the target cell with the polypeptide of claim 1.

16. The method according to claim 15, wherein the target cell is a leukocyte or phagocyte.

17. A method of activating PLA₂ in a target cell comprising contacting the cell with the polypeptide according to claim 1.

18. The method according to claim 17, wherein the PLA₂ is c PLA₂.

19. The method according to claim 17, wherein the target cell is a leukocyte or phagocyte.

20. A method of producing superoxide in a target cell comprising contacting the cell with the polypeptide according to claim 1.

21. The method according to claim 20, wherein the target cell is leukocyte or phagocyte.

22. A method of causing movement of a target cell, comprising contacting the cell with a polypeptide according to claim 1.

23. The method according to claim 22, wherein the target cell expresses FPRL1.

24. The method according to claim 23, wherein the target cell does not express FPR.